In the Claims

1. (Original) A method of preventing atherosclerosis in a mammal comprising administering to a mammal an effective amount of a TNF-α inhibitor selected from the group consisting of:

cyano and carboxy derivatives of substituted styrenes; cyclic imides; cycloalkyl amides and cycloalkyl nitrites; aryl amides; 1-oxo-2-(2,6-dioxo-3-fluoropiperidin-3yl) isoindolines and 1,3-dioxo-2-(2,6-dioxo-3-fluoropiperidine-3-yl) isoindolines; tetra substituted 2-(2,6-dioxopiperdin-3-yl)-1-oxoisoindolines; imide/amide ethers and alcohols; succinimides and maleimides; 1-oxo-and 1,3 dioxo-2-(2,6-dioxopiperidin-3-yl) isoindolines substituted with amino in the benzo ring; imido and amido substituted alkanohydroxamic acids; substituted phenethylsulfones substituted to the phenyl group with an oxoisoindine group; 1-Oxo and 1,3 dioxo-2-(2,6-dioxopiperidin-3yl) isoindolines; non-polypeptide cyclic amides; imido and amido substituted alkanohydroxamic acids; and substituted phenethylsulfones.

2. (Original) A method of preventing atherosclerosis in a mammal comprising administering to a mammal an effective amount of a TNF-α inhibitor selected from the group consisting of: 1-oxo-2-(2,6-dioxopiperidin-3-yl)-4-aminoisoindoline, 1,3-dioxo-2-(2,6-dioxopiperidin-3-yl)-4-aminoisoindoline and 3-(3,4-dimethoxyphenyl)-3-(1-oxisoindolin-2-yl)propionamide.

3. (Original) A method of preventing atherosclerosis in a mammal comprising administering to a mammal an effective amount of a TNF-α inhibitor selected from the group consisting of thalidomide, its analogs, its hydrolysis products, its metabolites and its precursors.

4. (Original) A method of treating atherosclerosis in a mammal comprising administering to a mammal in need thereof an effective amount of a TNF-α inhibitor selected from the group consisting of:

cyano and carboxy derivatives of substituted styrenes; cyclic imides; cycloalkyl amides and cycloalkyl nitrites; aryl amides; 1-oxo-2-(2,6-dioxo-3-fluoropiperidin-3yl) isoindolines and 1,3-dioxo-2-(2,6-dioxo-3-fluoropiperidine-3-yl) isoindolines; tetra substituted 2-(2,6-dioxopiperdin-3-yl)-1-oxoisoindolines; imide/amide ethers and alcohols; succinimides and maleimides; 1-oxo-and 1,3 dioxo-2-(2,6-dioxopiperidin-3-yl) isoindolines substituted with amino in the benzo

ring; imido and amido substituted alkanohydroxamic acids; substituted phenethylsulfones substituted to the phenyl group with an oxoisoindine group; 1-Oxo and 1,3 dioxo-2-(2,6-dioxopiperidin-3 yl) isoindolines; non-polypeptide cyclic amides; imido and amido substituted alkanohydroxamic acids and substituted phenethylsulfones.

5. (Original) A method of treating atherosclerosis in a mammal comprising administering to a mammal in need thereof an effective amount of a TNF-α inhibitor selected from the group consisting of: 1-oxo-2-(2,6-dioxopiperidin-3-yl)-4-aminoisoindoline; 1,3-dioxo-2-(2,6-dioxopiperidin-3-yl)-4-aminoisoindoline; and 3-(3,4-dimethoxyphenyl)-3-(1-oxisoindolin-2-yl)propionamide.

6. (Original) A method of treating atherosclerosis in a mammal comprising administering to a mammal in need thereof an effective amount of a TNF-α inhibitor selected from the group consisting of thalidomide, its analogs, its hydrolysis products, its metabolites and its precursors.

7. (Original) The method of claims 1, 2, 3, 4, 5, or 6 wherein the atherosclerosis is in the aorta, coronary artery, mesenteric arteries, or carotid arteries.

8. (Original) The method of claims 1, 2, 3, 4, 5, or 6 wherein the atherosclerosis is in the renal arteries.

9. (Original) The method of claims 1, 2, 3, 4, 5, or 6, wherein the mammal is a human.

10. (Previously Amended) The method of any one of claims 1, 2, or 3 wherein the mammal is a human at risk for complications of atherosclerosis.

11. (Original) The method of claim 10 wherein the subject and has not undergone surgical vascular intervention.

12. (Original) The method of claims 1, 2, 3, 4, 5, or 6 wherein approximately .01 mg/kg to 300 mg/kg of body weight is administered per day.

13. (Original) The method of claim 12 wherein approximately 0.1 mg/kg to 100 mg/kg of body weight is administered per day.

14. (Original) The method of claim 13 wherein approximately 0.5 mg/kg to 50 mg/kg of body weight is administered per day.

15. (Original) The method of claim 14 wherein approximately 1.0 mg/kg to 10 mg/kg of body weight is administered per day.

16. (Original) The method of claim 1, 2, 3, 4, 5, or 6 wherein the method of administration is oral.

17. (Original) A method of inhibiting or preventing restenosis in a mammal comprising administering to a mammal in need thereof an effective amount of a TNF-α inhibitor selected from the group consisting of:

cyano and carboxy derivatives of substituted styrenes; cyclic imides; cycloalkyl amides and cycloalkyl nitrites; aryl amides; 1-oxo-2-(2,6-dioxo-3-fluoropiperidin-3yl) isoindolines and 1,3-dioxo-2-(2,6-dioxo-3-fluoropiperidine-3-yl) isoindolines; tetra substituted 2-(2,6-dioxopiperdin-3-yl)-1-oxoisoindolines; imide/amide ethers and alcohols (for example 3-Phthalimido-3-(3',4'-dimethoxypheryl)propan-1-ol); succinimides and maleimides; 1-oxo- and 1,3 dioxo-2-(2,6-dioxopiperidin-3-yl) isoindolines substituted with amino in the benzo ring; imido and amido substituted alkanohydroxamic acids; substituted phenethylsulfones substituted to the phenyl group with an oxoisoindine group; 1-Oxo and 1,3 dioxo-2-(2,6-dioxopiperidin-3 yl) isoindolines; non-polypeptide cyclic amides; imido and amido substituted alkanohydroxamic acids; and substituted phenethylsulfones.

18. (Original) A method of inhibiting or preventing restenosis in a mammal comprising administering to a mammal in need thereof an effective amount of a drug selected from the group consisting of: 1-oxo-2-(2,6-dioxopiperidin-3-yl)-4-aminoisoindoline; 1,3-dioxo-2-(2,6-dioxopiperidin-3-yl)-4-aminoisoindoline; and 3-(3,4-dimethoxyphenyl)-3-(1-oxisoindolin-2-yl)propionamide so that restenosis is prevented or reduced.

19. (Original) A method of inhibiting or preventing restenosis in a mammal comprising administering to a mammal in need thereof an effective amount of a TNF-α inhibitor selected from the group consisting of thalidomide, its analogs, its hydrolysis products, its metabolites and its precursors so that restenosis is prevented or reduced.

20. (Original) The method of claim 17 wherein approximately .01 mg/kg to 300 mg/kg of body weight administered per day.

21. (Original) The method of claim 20 wherein approximately 0.1 mg/kg to 100 mg/kg of body weight is administered per day.

22. (Original) The method of claim 21 wherein approximately 0.5 mg/kg to 50 mg/kg of body weight is administered per day.

23. (Original) The method of claim 22 wherein approximately 1.0 mg/kg to 10 mg/kg of body weight is administered per day.

24. (Original) The method of claims 17, 18 or 19 wherein the treatment begins prior to surgical intervention.

25. (Original) The method of claim 24 wherein treatment begins prior to surgical intervention and is continued for about 4 to 12 weeks after the surgical intervention.

26. (Original) The method of claim 24 wherein the treatment begins about 12 hours or less prior to scheduled intervention.

27. (Original) The method of claim 25 wherein the treatment begins about 12 hours or less prior to scheduled intervention.

28. (Original) The method of claim 24 wherein the surgical intervention is percutaneous coronary intervention, percutaneous transluminal coronary angioplasty, carotid percutaneous transluminal angioplasty coronary by-pass grafting or coronary angioplasty with stent implantation.

29. (Original) The method of claim 24 wherein the surgical intervention is renal angioplasty, peripheral percutaneous transluminal intervention of the iliac, femoral or popliteal arteries or surgical intervention using impregnated artificial grafts.

30. (Original) The method of claims 17, 18, or 19 wherein the surgical intervention is unscheduled and treatment begins at the time of surgery.

31. (Original) The method of claims 17, 18, or 19 wherein the surgical intervention is unscheduled and treatment begins at the time of surgery and is discontinued about 4 to 12 weeks after the surgical intervention.

32-43. Cancelled

44. (Previously Added) The method of claims 1, 2, 3, 4, 5, or 6 wherein the atherosclerosis is in the common iliac arteries, internal iliac arteries, external iliac arteries, or the pulmonary arteries.